

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

01 Jun 2026

### A comparative study of Tramadol and Ondansetron in controlling pain and shivering in pregnant women candidate for cesarean section

#### Protocol summary

##### Study aim

Comparison the effect of Tramadol and Ondansetron in controlling pain and shivering in pregnant women candidate for cesarean section

##### Design

This three-phase clinical trial, with parallel groups, randomized (using the allocation randomization rule) is performed on 60 pregnant women candidates for elective cesarean section.

##### Settings and conduct

In this interventional study, 60 pregnant women candidates for elective cesarean section in Yas hospital are selected by convenience sampling.

##### Participants/Inclusion and exclusion criteria

Inclusion criteria include all pregnant women who are candidates for elective cesarean section with spinal anesthesia. Exclusion criteria: patients with sensitivity to Tramadol or Ondansetron, Emergency cesarean section, and Contraindications to spinal anesthesia.

##### Intervention groups

After performing spinal anesthesia for the patient, for the intervention, 4 mg of Ondansetron is injected by the anesthesiologist as an intravenous bolus and for the control group, 0.6 mg/kg of Tramadol is injected by the anesthesiologist as an intravenous bolus.

##### Main outcome variables

The patient's shivering and pain after the surgery

#### General information

##### Reason for update

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT20220620055225N3**

Registration date: **2023-06-26, 1402/04/05**

Registration timing: **prospective**

Last update: **2023-06-26, 1402/04/05**

Update count: **0**

##### Registration date

2023-06-26, 1402/04/05

##### Registrant information

###### Name

Khadijeh Adabi

###### Name of organization / entity

###### Country

Iran (Islamic Republic of)

###### Phone

+98 21 8894 8217

###### Email address

kh\_adabi@sina.tums.ac.ir

##### Recruitment status

**Recruitment complete**

##### Funding source

##### Expected recruitment start date

2023-07-06, 1402/04/15

##### Expected recruitment end date

2023-11-21, 1402/08/30

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

##### Trial completion date

empty

##### Scientific title

A comparative study of Tramadol and Ondansetron in controlling pain and shivering in pregnant women candidate for cesarean section

##### Public title

The controlling pain and shivering in pregnant women candidate for cesarean section

##### Purpose

Treatment

##### Inclusion/Exclusion criteria

**Inclusion criteria:**

All pregnant women are candidates for elective cesarean section with spinal anesthesia

**Exclusion criteria:**

Sensitivity to Tramadol or Ondansetron Emergency cesarean section Contraindications to spinal anesthesia include intracranial space lesions, systemic or spinal anesthesia puncture site infection, and coagulation disorders

**Age**

From **18 years** old to **45 years** old

**Gender**

Female

**Phase**

3

**Groups that have been masked**

- Participant
- Investigator

**Sample size**

Target sample size: **60**

**Randomization (investigator's opinion)**

Randomized

**Randomization description**

Random allocation rule: First, 30 letters A and 30 letters B are written on special papers that are not marked inside. Then all of them are placed in a bag and for each patient, after obtaining informed consent, a paper is removed randomly and without replacement, and based on the letter written on it, the desired intervention is performed for the patient. In addition, interventions A (intervention) or B (control) are determined by a lot.

**Blinding (investigator's opinion)**

Double blinded

**Blinding description**

This study is performed double-blind, the participants and the researcher do not know the type of treatment. For each patient, the appropriate study drug was prepared and diluted (clear and transparent solution) to a volume of 4 ml (in a 5 ml syringe).

**Placebo**

Not used

**Assignment**

Parallel

**Other design features**

**Secondary Ids**

empty

**Ethics committees**

**1**

**Ethics committee**

**Name of ethics committee**

Ethics Committees of Tehran University of Medical Sciences

**Street address**

Ethics committee of Tehran University of Medical Sciences, School of Medicine, Pour Sina Ave., Qods Blvd.

**City**

Tehran

**Province**

Tehran

**Postal code**

1419733141

**Approval date**

2022-09-10, 1401/06/19

**Ethics committee reference number**

IR.TUMS.MEDICINE.REC.1401.478

**Health conditions studied**

**1**

**Description of health condition studied**

Cesarean section

**ICD-10 code**

O75.82

**ICD-10 code description**

Onset (spontaneous) of labor after 37 completed weeks of gestation but before 39 completed weeks gestation, with delivery by (planned) cesarean section

**Primary outcomes**

**1**

**Description**

The patient's shivering

**Timepoint**

Once, after delivery

**Method of measurement**

Using Tsai and Chu criteria

**2**

**Description**

The amount of patient's pain

**Timepoint**

Once, after delivery

**Method of measurement**

Using VAS scale

**Secondary outcomes**

empty

**Intervention groups**

**1**

**Description**

Intervention group: After performing spinal anesthesia for the patient, 4 mg of Ondansetron is injected by the anesthesiologist as an intravenous bolus.

**Category**

Treatment - Drugs

**2**

**Description**

Control group: After performing spinal anesthesia for the patient, 0.5 mg/kg of Tramadol is injected by the anesthesiologist as an intravenous bolus.

**Category**

Treatment - Drugs

**Recruitment centers****1****Recruitment center****Name of recruitment center**

Yas hospital

**Full name of responsible person**

Khadijeh Adabi

**Street address**

Yas hospital, Next to the Sarv St., North Nejatollahi Str., Karim Khan Ave.

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1597856511

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+98 21 8608 9089

**Email**

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**Sponsors / Funding sources****1****Sponsor****Name of organization / entity**

Tehran University of Medical Sciences

**Full name of responsible person**

Vice-Dean of Research of Tehran University of Medical Sciences, Dr. Fotouhi

**Street address**

Vice-Dean of Research, Tehran University of Medical Sciences, Floor 6, Qods St., Keshavarz Blvd, Tehran, Iran

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1416634793

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+98 21 6381 9836

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vcr@tums.ac.ir

**Grant name****Grant code / Reference number****Is the source of funding the same sponsor organization/entity?**

Yes

**Title of funding source**

Tehran University of Medical Sciences

**Proportion provided by this source**

100

**Public or private sector**

Public

**Domestic or foreign origin**

Domestic

**Category of foreign source of funding**

empty

**Country of origin****Type of organization providing the funding**

Academic

**Person responsible for general inquiries****Contact****Name of organization / entity**

Tehran University of Medical Sciences

**Full name of responsible person**

Khadijeh Adabi

**Position**

Associate professor

**Latest degree**

Subspecialist

**Other areas of specialty/work**

Gynecology and Obstetrics

**Street address**

Karim Khan Blvd., North Nejat Elahi St., Yas Hospital

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**Province**

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**Person responsible for scientific inquiries****Contact****Name of organization / entity**

Tehran University of Medical Sciences

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Khadijeh Adabi

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Associate professor

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**Sharing plan****Deidentified Individual Participant Data Set (IPD)**

Yes - There is a plan to make this available

**Study Protocol**

Yes - There is a plan to make this available

**Statistical Analysis Plan**

No - There is not a plan to make this available

**Informed Consent Form**

Yes - There is a plan to make this available

**Clinical Study Report**

Yes - There is a plan to make this available

**Analytic Code**

No - There is not a plan to make this available

**Data Dictionary**

Not applicable

**Title and more details about the data/document**

The anonymous study data is potentially shareable.

**When the data will become available and for how long**

After the manuscript is published.

**To whom data/document is available**

No limitations.

**Under which criteria data/document could be used**

The data is only available to the project manager, Dr. Khadijeh Adabi, and any analysis must be done with her opinion.

**From where data/document is obtainable**

Dr. Khadijeh Adabi

**What processes are involved for a request to access data/document**

Any request must be sent by e-mail with its proposal to Dr. Khadijeh Adabi.

**Comments**